International application No.

PCT/AU2004/001051

Int. Cl. 1. C12Q 1/68, C12N 15/01, A61K 39/395 COTK 14/47 According to International Parent Classification (PC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification classification system followed by classification syste	Α. (CLASSIFICATION OF SUBJECT MATTER			
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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WPIDS, CA Medline. SCN1A, polymorphism/mutation/SNP, epilepsy/disease/febrile seizure C DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. A Fujiwara T et al. Mutations of sodium channel or subunit type 1 (SCN1A) in intractable childhood epilepsies with frequent generalized tonic-clonic seizures. Brain, 2003. 126: 531-546 A Nabbout R et al. Spectrum of SCN1A mutations in severe myoclonic epilepsy of infancy. Neurology, 2003 Jun 24. 66(12):1961-7. A WO 2003/008574 A1 (BIONOMICS LIMITED) 30 January 2003 WO 2002/6521 A1 (BIONOMICS LIMITED) 24 January 2002 A WO 2002/50096 A1 ((BIONOMICS LIMITED) 27 June 2002 Further documents are listed in the continuation of Box C X See patent family annex "To accommend defining the general state of the art which is not considered to be of particular relevance in the international filing date or priority date and not in considered to be of particular relevance (see shediling) or when it is clied to establish the publication date of another classion or other special reason (se specified) of cowment referring to an ond disclosure, use, chabition or other means "To document published prior to the international filing date in invention cannot be considered to involve an inventive step when the document is combined with one or more other special reason (se specified) of cowment referring to an ond disclosure, use, chabitions or or more other special reason (se specified) of cowment referring to an ond disclosure, use, chabitions or other special reason (see specified) of cowment referring to an ond disclosure, use, chabitions or more other special reason (see specified) of cowment referring to an ond disclosure, use, chabitions or other special reason (see specified) of cowment referring to an ond disclosure, use, chabitions or inventive step when the doc			that such documents are included in the fields search	ed	
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International application No.

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Box No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sneet)		
This intern	ational search report has not been established in respect of certain claims under Article 17(2)(a) for the following		
1.	Claims Nos.:		
	because they relate to subject matter not required to be searched by this Authority, namely:		
•			
	`		
2. X	Claims No 65 and 66		
	because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:		
	The scope of these claims is so unclear that no meaningful search can be performed.		
•			
	·		
3.	Claims Nos.:		
•	because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)		
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)			
This International Searching Authority found multiple inventions in this international application, as follows:			
The ISA found that the claims were directed to multiple invention			
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See St	pplemental Box III for details		
1.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.		
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.		
3.	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:		
	,		
4. X	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by:		
	Claims 1-16 19-27, 29-64, 67-85 in so far as they are directed to polymorphisms in SCN1A		
	Cidilib 1-10 17-21, 27 01, 01 to in to kit as any 22 dicesses to perjust Pro-		
Remark o	n Protest The additional search fees were accompanied by the applicant's protest.		
	No protest accompanied the payment of additional search fees.		

International application No.

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Supplemental Box

(To be used when the space in any of Boxes I to VIII is not sufficient)

Continuation of Box No: III

The present claims are to 72 different mutations in 18 different ion channel genes, the mutant genes and their encoded polypeptides and antibodics thereto, and to uses of these in diagnosis or therapy.

The unifying feature of the claimed inventions is a disease-associated mutation of an ion channel gene. However, ion channel disease-associated mutations are known for every one of the ion channels of the claims, ie SCN, CHRN, KCON, and GABR.

Therefore, since the unifying feature of the different mutations is not novel, it cannot be accepted as a special technical feature that would unite the claims.

There are therefore 72 separate inventions claimed.

However, this office believes that all claimed mutations of any one of the claimed genes could be searched without undue effort, and has chose to search the claims in so far as they are directed to polymorphisms of SCN1A

International application No.

END OF ANNEX

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This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report	Patent Family Member	
WO 2003/008574	CA 2454073	·
	EP 1407013	
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